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10 March 1954

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**MEMORANDUM FOR THE RECORD**

**SUBJECT:** Project Monitor at [redacted]  
on P-101 - Communication System, IR, and P-115 -  
Transistorized Receivers and Transmitters

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1. Time and Place of Meeting: 3 March 1954 at [redacted]

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2. Attendance:

3. Discussion:

a. P-115, Transistorized Receivers and Transmitters:

(1) [redacted] reported that the report promised by 1 March had not been written. Work on it was delayed by design difficulties on another project which involved a total of some \$14 million. Since [redacted] were tied up on this other project, they were unable to work on ours. Essentially, no progress was made during the past month on P-115.

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(2) [redacted] stated that we would have the first report in our hands by 22 March. The first report will contain a plan of action on the project which will take into account that cleared personnel will not be available until the middle of May and also that work may be done on the project on an unclassified sterile basis until that time.

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b. P-101, Communication System, IR:

(1) The manpower situation was discussed with [redacted]  
Presently, there are 4 persons working on the task; [redacted]

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DOCUMENT NO. [redacted]  
NO CHANGE IN CLASS. ☐  
13 DECLASSIFIED  
CLASS. CHANGED TO: TS S  
NEXT REVIEW DATE: [redacted]  
AUTH: HR 70  
DATE: 140/80 REVIEWER: 010956

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[ ] No permanent project engineer has been assigned. [ ] as yet unclear, is the man selected for project engineer. [ ] who is apparently second in command to [ ] on the project, is already overloaded with work. In total, some 200 man hours were spent on the project during the past month.

(2) The monthly report, Progress Report #3, was not written as of 3 March. The previous report was dated 29 January 1954.

(3) The dark tunnel has been completed except for the airconditioner and mountings for the vacuum range attenuator and other equipment. The former was expedited by [ ] and should be installed instantly! The latter was being done while the undersigned was present.

(4) The vacuum range attenuator is complete. The beam-width search-find apparatus is complete. Some electronic equipment such as amplifiers, etc., are on hand.

(5) No data has been taken on appropriate beamwidths. Some thinking has been done on the probable beamwidth necessary and the operational procedure for aligning the system. Some thinking has been done on the optical system required.

(6) Work has gone ahead on the power source problem. McCoy has been contacted regarding gasoline and diesel motors and their silencing. Several motors have been ordered. Motoresearch of Racine, Wisconsin has been contacted regarding small generators. It is apparently not too great a problem to build a small motor generator. The silencing problem, however, has not yet been definitely solved. [ ] presently estimates that a silenced motor generator will cost about \$100 in quantities of 1000.

(7) The combination of source and detector has been considered further. The cesium and xenon arcs have been eliminated as being physically too large and because of certain intrinsic difficulties such as long restarting time and difficult starting procedure. Presently being considered are tungsten filaments and Western Union zirconium arcs as sources and PbS or some similar material as detector.

c. General Administrative:

(1) [ ] was verbally notified of the clearance of [ ] Written notice will be given them as soon as possible.

(3) The security

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(3) The security case of [ ] was discussed. His case is being appealed with the Air Force. Some small grounds for refusal were uncovered by [ ] during his questioning of [ ]

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4. Actions:

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a. Notify [ ] in writing of approval of [ ]

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b. Consider measures to be taken to expedite work at [ ] on both projects.

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[ ]

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APD/TSS

AST:mmw

Distribution

Original - P-101

1 - P-115

1 - Chrono

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